

STATE OF MICHIGAN  
DEPARTMENT OF NATURAL RESOURCES  
WATER RESOURCES COMMISSION  
**DISCHARGE PERMIT APPLICATION**

R 4850  
2/74

|                  |
|------------------|
| FOR OFFICIAL USE |
| HYD.             |
| GEOL.            |
| DIST.            |
| P.N.             |

Please print or type. The last page of this application contains a list of instructions and other important information. Please read the last page carefully before completing this application.

1. APPLICATION FOR (Check one):

|  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> Existing Discharge | <input type="checkbox"/> New Discharge | <input type="checkbox"/> Increased Discharge |
|--|--|--|

|  |                         |   |
|--|-------------------------|---|
| 2 Name of Applicant<br><b>REN PLASTICS, Division of Ciba-Geigy</b> |                         | Telephone No.<br><b>(517) 393-1500</b>      |
| No. and Street<br><b>5656 S. Cedar Street</b>                      | City<br><b>Lansing,</b> | State and Zip Code<br><b>Michigan 48909</b> |

3 (a) TYPE OF LEGAL ENTITY (Check one).

|  |  |                                      |   |
|--|--|--------------------------------------|---|
| <input type="checkbox"/> Sole Owner        | <input checked="" type="checkbox"/> Corporation  | <input type="checkbox"/> Partnership | If incorporated, indicate state in which articles of incorporation are filed<br><br><b>New York</b> |
| <input type="checkbox"/> Governmental Unit | <input type="checkbox"/> Non-Profit Organization |                                      |   |

(b) TYPE OF PROPOSED ENTERPRISE (Check one):

|  |  |
|--|--|
| <input type="checkbox"/> A. Municipal Wastewater, School, Trailer Park | <input type="checkbox"/> C. Manufacturing and Mining   |
| <input type="checkbox"/> B. Agricultural, Including Fish Farms         | <input checked="" type="checkbox"/> D. Wholesale and Retail Trade, Other Commercial Establishments |

(c) DESCRIPTION OF PROPOSED ENTERPRISE:

**Research and Development for Plastics.**

US EPA RECORDS CENTER REGION 5



503842

(d) LOCATION OF PROPOSED ENTERPRISE

|   |                                    |                                   |               |
|---|------------------------------------|-----------------------------------|---------------|
| Street Address<br><b>5656 S. Cedar Street</b> |                                    | City or Village<br><b>Lansing</b> |               |
| County<br><b>Ingham</b>                       | Township<br><b>City of Lansing</b> | Town                              | Range Section |

4 SOURCE OF WATER (Example: private well, river, municipal supply):

| PROCESS WATER          |                                   | Amount (gal/day)      |
|------------------------|-----------------------------------|-----------------------|
| COOLING AND CONDENSING | <b>Municipal, City of Lansing</b> | <b>8,800 gal/wk.</b>  |
| DOMESTIC WATER         | <b>Municipal, City of Lansing</b> | <b>21,700 gal/wk.</b> |
| OTHER (Specify)        |                                   | Amount (gal/day)      |

5 PROPOSED LOCATION OF WASTE DISCHARGE (Example: groundwater, public sewer, county drain, lake; give name where applicable):

| PROCESS WATER          |  | Amount (gal/day)      |
|------------------------|--|-----------------------|
| COOLING AND CONDENSING | <b>Storm sewer.</b>  | <b>8,800 gal/wk.</b>  |
| DOMESTIC WASTE WATER   | <b>Presently private septic tank--drain field. Proposed connection to Lansing City Sanitary Sewer,</b> | <b>21,700 gal/wk.</b> |
| OTHER (Specify)        | <b>June 1, 1979.</b>   | Amount (gal/day)      |

## 6. (a) BRIEF DESCRIPTION OF PROPOSED TREATMENT OR CONTROL FACILITIES

N/A

## 6. (b) DESCRIPTION OF EXPECTED CHARACTERISTICS OF WASTE AFTER TREATMENT (Bacterial, physical, chemical, other)

Process Waste

N/A

COOLING AND  
CONDENSING WATER

List All Additives

Municipal Water without additives.

ANTICIPATED  
TEMPERATURE  
OF DISCHARGEMax. Summer 130

°F

Max. Winter 130

°F

Ave. Summer 100

°F

Ave. Winter 100

°F

ANTICIPATED  
TEMPERATURE  
OF INTAKE.Ave Winter 55

°F

Ave Summer 60

°F

SANITARY  
SEWAGE

No treatment proposed, will connect to Lansing sewer system.

OTHER (Specify)

## 7. DISTANCE OF TREATMENT FACILITIES FROM NEAREST WELL: N/A

PRIVATE WELL N/A FEETMUNICIPAL WELL N/A FEET8. IF SUBSURFACE DISPOSAL OR OXIDATION POND IS PROPOSED, NEAREST  
DISTANCE TO A SURFACE WATERCOURSE

N/A

FEET

9. IF DISCHARGE IS TO UNDERGROUND BY INJECTION WELL, INCLUDE COMPLETE DATA AS TO DEPTH AND DIAMETER OF WELL, MATERIALS  
AND DETAILS OF CONSTRUCTION, DATE OF DRILLING, SCREEN DATA, AND PROPOSED OPERATIONS OF INJECTION WELL ON A SEPARATE  
FLY SHEET. N/A.10. Provide herewith, either by drawing in the space below or by attaching a USGS map or county map with appropriate marking, each proposed discharge point for  
process wastes, cooling waters or sanitary wastes.

Attachment.

## 11. NAMES AND ADDRESSES OF PROPERTY OWNERS ADJACENT TO PROPOSED ENTERPRISE

Ace Propane Gas Company

Address  
5716 S. Cedar Street, Lansing

Lippincott Auto Sales

Address  
5634 S. Cedar Street, Lansing

Hudson Oil Company

Address  
5620 S. Cedar Street, Lansing

12. FOLLOWING IS A LIST OF CRITICAL MATERIALS. PLEASE INDICATE THE AMOUNT OF THESE MATERIALS USED, OR PROPOSED TO BE USED IN OR INCIDENTAL TO YOUR OPERATIONS.

I. INORGANIC MATERIALS

| NAME                     | AMOUNT (lbs/yr) | NAME                            | AMOUNT (lbs/yr) |
|--------------------------|-----------------|---------------------------------|-----------------|
| Antimony ( $Sb_2 O_3$ )  | 50 lbs.         | Mercury Organic Mercury Complex | < 10 lbs.       |
| Arsenic                  |                 | Nickel                          |                 |
| Cadmium                  |                 | Selenium                        |                 |
| Chromium $Na_2 Cr_2 O_4$ | 10 lbs.         | Silver                          |                 |
| Copper                   |                 | Sulfides                        |                 |
| Cyanides                 |                 | Thallium                        |                 |
| Lead                     |                 | Zinc ( $ZnO$ )                  | 100 lbs.        |

II. ORGANIC MATERIALS

| NAME                                      | AMOUNT (lbs/yr) | NAME                              | AMOUNT (lbs/yr) |
|---|-----------------|-----------------------------------|-----------------|
| Acridine                                  |                 | Hexachlorobenzene (HCB)           |                 |
| Acrolein                                  |                 | Hexachlorobutadiene (HCBd)        |                 |
| Aldrin                                    |                 | Hydroquinone                      | < 1/4 lb.       |
| Ammonia                                   |                 | Isoprene                          |                 |
| Amyl Acetate                              |                 | Lactonitrile                      |                 |
| Anilines (incl Benzidines)                | 1,000 lbs.      | Mesitylene                        |                 |
| Benzaldehyde                              |                 | Mesityl Oxide                     |                 |
| Benzene (Solvent)                         |                 | Naphthol                          |                 |
| Benzyl Bromide                            |                 | Naphthemic Acid (Naphthiene)      |                 |
| Beta Propiolactone                        |                 | Nitrobenzenes                     |                 |
| Butyl Alcohol (Lab reagent)               | < 1 lb.         | Phenolic Compounds                | 160 lbs.        |
| Butyraldehydes                            |                 | Phenanthrene                      |                 |
| Butyric Acid                              |                 | Phthalates (DBP, DOP)             | 250 lbs.        |
| Carbon Disulfide                          |                 | Picramates (nitro-phenols)        |                 |
| Chlorinated Benzene Compounds Lab reagent | 50 lbs.         | Polychlorinated biphenyls (PCB'S) |                 |
| Crotonaldehyde                            |                 | Pyridines                         |                 |
| Cumene                                    |                 | Quinoline                         |                 |
| DDT                                       |                 | Quinone                           |                 |
| Dichloropropane                           |                 | Styrene                           | 10 lbs.         |
| Dieldrin                                  |                 | Tordon                            |                 |
| Diethylbenzene                            |                 | Toxaphene                         |                 |
| Endrin                                    |                 | Vinyl Toluene                     |                 |
| Ethyl Acrylate                            |                 | Xylenes Lab reagents              | 10 lbs.         |
| Heptachlor                                |                 | 2-4-5 T (and its formulations)    |                 |

Submitted in accordance with Section 8 (b), Act 245, Public Acts of 1929, as amended

|  |                |                                       |      |
|--|----------------|---------------------------------------|------|
| Signature of Applicant<br><i>Denis C. Smith</i>                          | Date<br>2-9-79 | If Partnership, Signature of Co Owner | Date |
| Print or Type Applicant's Name and Title<br>Denis Smith, General Manager |                | Print or Type Co-Owner's Name         |      |

NOTE If sanitary sewage is to be discharged from housing developments, apartment buildings, shopping centers, or other commercial developments into a system *other* than an approved municipal sanitary waste collection system, the following should be completed and signed by an authorized municipal official or township officer.

It is the policy of the Commission to request that applications involving the disposal of sewage of human origin from any entity *other* than local government include the local government as a co-signer of the statement, and that all proceedings and hearings against the said entity will include the local unit of government as a party by appropriate notice, and all permits issued as a result of such hearings and proceedings will be jointly against the said unit and entity

|   |      |  |  |
|---|------|--|--|
| Signature of Authorized Local Government Representative |      | Mailing Address of Local Government Representative |  |
| Print or Type Name of Local Government Representative   |      |  |  |
| Title   | Date |  |  |

ITEM #10 DISCHARGE POINTS FOR COOLING WATER

- A - Water cooled vacuum pump
- B - Cooling 10 gallon kettle reactor
- C - Cooling 50 gallon mixer
- D - Laboratory Injection molder
- E - Laboratory Banbury mixer
- F - Laboratory Thermoplastic Extruder
- G - Pilot Banbury and Extruder
- H - Thermoplastic Cooling Trough
- I - Floor drain

Cooling water from A, B, and C flows into floor drain and is pumped through over head pipe to second floor drain at point F. Cooling water from D, E, F, and G also flow into floor drain I and is then discharged to storm sewer.

The water used in the thermoplastic cooling trough is a closed system containing reservoir, circulation pump and air cooling tower.

The cooling water in this equipment is for non-production experimental use only and used intermittently.

RSJ/slr  
2/13/79

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WATER RESOURCES COMMISSION  
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| <input checked="" type="checkbox"/> Existing Discharge | <input type="checkbox"/> New Discharge | <input type="checkbox"/> Increased Discharge |
|--|--|--|

|  |                         |   |
|--|-------------------------|---|
| Name of Applicant<br><b>REN PLASTICS, Division of Ciba-Geigy</b> |                         | Telephone No.<br><b>(517) 393-1500</b>      |
| No. and Street<br><b>5656 S. Cedar Street</b>                    | City<br><b>Lansing,</b> | State and Zip Code<br><b>Michigan 48909</b> |

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| <input type="checkbox"/> Governmental Unit | <input type="checkbox"/> Non Profit Organization |                                      |   |

(b) TYPE OF PROPOSED ENTERPRISE (Check one).

|  |  |
|--|--|
| <input type="checkbox"/> A. Municipal Wastewater, School, Trailer Park | <input type="checkbox"/> C. Manufacturing and Mining   |
| <input type="checkbox"/> B. Agricultural, Including Fish Farms         | <input checked="" type="checkbox"/> D. Wholesale and Retail Trade, Other Commercial Establishments |

(c) DESCRIPTION OF PROPOSED ENTERPRISE:

|   |
|---|
| <p style="text-align: center; font-size: 1.2em;">Research and Development for Plastics.</p> |
|---|

(d) LOCATION OF PROPOSED ENTERPRISE:

|   |                                    |                                   |       |         |
|---|------------------------------------|-----------------------------------|-------|---------|
| Street Address<br><b>5656 S. Cedar Street</b> |                                    | City or Village<br><b>Lansing</b> |       |         |
| County<br><b>Ingham</b>                       | Township<br><b>City of Lansing</b> | Town                              | Range | Section |

4. SOURCE OF WATER (Example: private well, river, municipal supply):

|                        |                                   |                  |                       |
|------------------------|-----------------------------------|------------------|-----------------------|
| PROCESS WATER          |                                   | Amount (gal/day) |                       |
| COOLING AND CONDENSING | <b>Municipal, City of Lansing</b> | Amount (gal/day) | <b>8,800 gal/wk.</b>  |
| DOMESTIC WATER         | <b>Municipal, City of Lansing</b> | Amount (gal/day) | <b>21,700 gal/wk.</b> |
| OTHER (Specify)        |                                   | Amount (gal/day) |                       |

5. PROPOSED LOCATION OF WASTE DISCHARGE (Example: groundwater, public sewer, county drain, lake; give name where applicable):

|                        |  |                  |                       |
|------------------------|--|------------------|-----------------------|
| PROCESS WATER          |  | Amount (gal/day) |                       |
| COOLING AND CONDENSING | <b>Storm sewer.</b>  | Amount (gal/day) | <b>8,800 gal/wk.</b>  |
| DOMESTIC WASTE WATER   | <b>Presently private septic tank--drain field. Proposed connection to Lansing City Sanitary Sewer,</b> | Amount (gal/day) | <b>21,700 gal/wk.</b> |
| OTHER (Specify)        | <b>June 1, 1979.</b>   | Amount (gal/day) |                       |

## 6. (a) BRIEF DESCRIPTION OF PROPOSED TREATMENT OR CONTROL FACILITIES.

N/A

## (b) DESCRIPTION OF EXPECTED CHARACTERISTICS OF WASTE AFTER TREATMENT (Bacterial, physical, chemical, other)

Process Waste

N/A

COOLING AND  
CONDENSING WATER

List All Additives

Municipal Water without additives.

ANTICIPATED  
TEMPERATURE  
OF DISCHARGEMax. Summer 130 °F Max. Winter 130 °F  
Ave. Summer 100 °F Ave. Winter 100 °FANTICIPATED  
TEMPERATURE  
OF INTAKEAve. Winter 55 °F  
Ave. Summer 60 °FSANITARY  
SEWAGE

No treatment proposed, will connect to Lansing sewer system.

OTHER (Specify)

## 7. DISTANCE OF TREATMENT FACILITIES FROM NEAREST WELL: N/A

PRIVATE WELL N/A FEETMUNICIPAL WELL N/A FEET8. IF SUBSURFACE DISPOSAL OR OXIDATION POND IS PROPOSED, NEAREST  
DISTANCE TO A SURFACE WATERCOURSE:

N/A

FEET

9. IF DISCHARGE IS TO UNDERGROUND BY INJECTION WELL, INCLUDE COMPLETE DATA AS TO DEPTH AND DIAMETER OF WELL, MATERIALS  
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## 11. NAMES AND ADDRESSES OF PROPERTY OWNERS ADJACENT TO PROPOSED ENTERPRISE

|      |                         |         |                               |
|------|-------------------------|---------|-------------------------------|
| Name | Ace Propane Gas Company | Address | 5716 S. Cedar Street, Lansing |
| Name | Lippincott Auto Sales   | Address | 5634 S. Cedar Street, Lansing |
| Name | Hudson Oil Company      | Address | 5620 S. Cedar Street, Lansing |

12. FOLLOWING IS A LIST OF CRITICAL MATERIALS. PLEASE INDICATE THE AMOUNT OF THE MATERIALS USED, OR PROPOSED TO BE USED IN OR INCIDENTAL TO YOUR OPERATIONS.

I. INORGANIC MATERIALS

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| Cadmium                  |                 | Selenium                        |                 |
| Chromium $Na_2 Cr_2 O_4$ | 10 lbs.         | Silver                          |                 |
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| Lead                     |                 | Zinc ( $ZnO$ )                  | 100 lbs         |

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| Anilines (incl Benzidines)                | 1,000 lbs.      | Mesitylene                        |                 |
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| Benzene (Solvent)                         |                 | Naphthol                          |                 |
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| Signature of Applicant<br><i>Denis C. Smith</i>                          | Date<br>2-9-79 | If Partnership, Signature of Co Owner | Date |
| Print or Type Applicant's Name and Title<br>Denis Smith, General Manager |                | Print or Type Co-Owner's Name         |      |

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|   |      |  |  |
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| Signature of Authorized Local Government Representative |      | Mailing Address of Local Government Representative |  |
| Print or Type Name of Local Government Representative   |      |  |  |
| Title   | Date |  |  |

# DISCHARGE PERMIT APPLICATION

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| Research and Development for Plastics. |
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|                           |                            |                  |                |
|---------------------------|----------------------------|------------------|----------------|
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| DOMESTIC WASTE<br>WATER   | Presently private septic tank--drain field. Proposed connection to Lansing City Sanitary Sewer. | Amount (gal/day) | 21,700 gal/wk. |
| OTHER<br>(Specify)        | June 1, 1979.   | Amount (gal/day) |                |



N/A

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Process Waste

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COOLING AND  
CONDENSING WATER

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Municipal Water without additives.

ANTICIPATED  
TEMPERATURE  
OF DISCHARGE

Max. Summer 130 °F Max. Winter 130 °F  
Ave. Summer 100 °F Ave. Winter 100 °F

ANTICIPATED  
TEMPERATURE  
OF INTAKE.

Ave. Winter 55 °F  
Ave. Summer 60 °F

SANITARY  
SEWAGE

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OTHER (Specify)

7. DISTANCE OF TREATMENT FACILITIES FROM NEAREST WELL. N/A

PRIVATE WELL N/A FEET

MUNICIPAL WELL N/A FEET

8. IF SUBSURFACE DISPOSAL OR OXIDATION POND IS PROPOSED, NEAREST DISTANCE TO A SURFACE WATERCOURSE

N/A FEET

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| Copper                   |                 | Sulfides                        |                 |
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| Ammonia                                   |                 | Isoprene                          |                 |
| Amyl Acetate                              |                 | Lactonitrile                      |                 |
| Anilines (incl. Benzidines)               | 1,000 lbs.      | Mesitylene                        |                 |
| Benzaldehyde                              |                 | Mesityl Oxide                     |                 |
| Benzene (Solvent)                         |                 | Naphthol                          |                 |
| Benzyl Bromide                            |                 | Naphthemic Acid (Naphthalene)     |                 |
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| Butyl Alcohol (Lab reagent)               | < 1 lb.         | Phenolic Compounds                | 160 lbs.        |
| Butyraldehydes                            |                 | Phenanthrene                      |                 |
| Butyric Acid                              |                 | Phthalates (DBP, DOP)             | 250 lbs.        |
| Carbon Disulfide                          |                 | Picramates (nitro-phenols)        |                 |
| Chlorinated Benzene Compounds Lab reagent | 50 lbs.         | Polychlorinated biphenyls (PCB'S) |                 |
| Crotonaldehyde                            |                 | Pyridines                         |                 |
| Cumene                                    |                 | Quinoline                         |                 |
| DDT                                       |                 | Quinone                           |                 |
| Dichloropropane                           |                 | Styrene                           | 10 lbs.         |
| Dieldrin                                  |                 | Tordon                            |                 |
| Diethylbenzene                            |                 | Toxaphene                         |                 |
| Endrin                                    |                 | Vinyl Toluene                     |                 |
| Ethyl Acrylate                            |                 | Xylenes Lab reagents              | 10 lbs.         |
| Heptachlor                                |                 | 2-4-5 T (and its formulations)    |                 |

Submitted in accordance with Section 8 (b), Act 245, Public Acts of 1929, as amended

|  |                |                                       |      |
|--|----------------|---------------------------------------|------|
| Signature of Applicant<br><i>Denis C. Smith</i>                          | Date<br>2-9-79 | If Partnership, Signature of Co-Owner | Date |
| Print or Type Applicant's Name and Title<br>Denis Smith, General Manager |                | Print or Type Co Owner's Name         |      |

NOTE: If sanitary sewage is to be discharged from housing developments, apartment buildings, shopping centers, or other commercial developments into a system other than an approved municipal sanitary waste collection system, the following should be completed and signed by an authorized municipal official or township officer.

It is the policy of the Commission to request that applications involving the disposal of sewage of human origin from any entity other than local government include the local government as a co-signer of the statement, and that all proceedings and hearings against the said entity will include the local unit of government as a party by appropriate notice, and all permits issued as a result of such hearings and proceedings will be jointly against the said unit and entity.

|   |       |  |  |
|---|-------|--|--|
| Signature of Authorized Local Government Representative |       | Mailing Address of Local Government Representative |  |
| Print or Type Name of Local Government Representative   |       |  |  |
| Title   | State |  |  |